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Maryland

Berryhill, H.L. Jr., Colton, G.W., deWitt, Wallace, Jr., and Johnston, J.E., 1956, Geologic map of Allegany County: prepared in cooperation with the State of Maryland Department of Geology, Mines and Water Resources, Singewald, J.T., Jr., Director, scale 1:62,500.

Cleaves, E. I., Edwards, Jr, J., and Glasser, J. D., 1968, Geologic map of Maryland: Annapolis, Maryland Geological Survey, scale 1:250,000.

Ohio

Bownocker, J.A., 1920, Geologic map of Ohio: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:500,000.

Bronsdon, L.H., 1955., Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 1: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 2: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

(No. 8) Coal, Area 9: Columbus, Ohio Department of Natural Resources,

Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh

(No. 8) Coal, Area 10: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 11: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 12: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

vision of Geological Survey, scale 1:62,500.

Areal Extent of the Pittsburgh Coal Bed and Horizon

Data Sources

Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 14: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.
Bronsdon, L.H., 1955, Ohio coal resource map: isopach map of Pittsburgh (No. 8) Coal, Area 15: Columbus, Ohio Department of Natural Resources, Division of Geological Survey, scale 1:62,500.

Pennsylvania
Dodge, C. H., and Glover, A. D., 1984, Coal resources of Greene County, Pennsylvania. Part 1. Coal crop lines, mined out areas, and structure contours: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey Report 86, p. 30, 42.
Shaulis, J.R., 1985, Coal resources of Fayette County, Pennsylvania. Part 1. Coal crop lines, mined out areas, and structure contours: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey Report 91, p. 8, 13, 15, 20, 32, 34, 44, 48, 53, 60, 64, 74, 78, 84, 86.
Skema, V.W., 1988, Coal resources of Westmoreland County, Pennsylvania. Part 1. Coal crop lines, mined out areas, and structure contours: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey Report 94, p. 7, 11, 19, 32, 37, 42, 45, 54, 66, 71, 74, 79, 86, 92, 100, 106, 110, 125.
Dodge, C. H., 1985, Coal resources of Allegheny County, Pennsylvania. Part 1. Coal crop lines, mined out areas, and structure contours: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey, Report 89, p. 5, 7, 12, 15, 18, 20, 25, 28, 33, 38, 40, 45, 46, 50, 54, 58, 60, 62, 65.
Skema, V.W., 1987, Coal resources of Washington County, Pennsylvania. Part 1. Coal crop lines, mined out areas, and structure contours: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey, Report 93, p. 9, 15, 20, 22, 27, 30, 34, 36, 44, 48, 52, 63, 66, 71, 76, 81, 89.
Gray, C., and Shepps, V. C., Arndt, H. H., Bergston, J. M., Cate, A. S., Corlin, R. R., Geyer, A. R., Hoskins, D. M., Kehn, T. M., Little, W. S., McLaughlin, D. B., Miller, J. T., Socolow, A. A., Shuffner, M. N., Van Olden, A. E., Wood, G. H., Jr., 1960, Geologic map of Pennsylvania: Harrisburg, Pennsylvania Bureau of Topographic and Geologic Survey.

West Virginia
Cardwell, D. H., Erwin, R. B., Lotz, C. W., and Woodward, H. P., 1968, Geologic map of West Virginia: Morgantown, West Virginia Geological and Economic Survey, scale 1:250,000.
Fedorko, N., 1990, Open-file reports showing cropline of the Pittsburgh Coal bed in Monongalia County: Morgantown, West Virginia Geological and Economic Survey, scale 1:24,000.
Hennen, R.V., 1909, Map showing general and economic geology of Marshall, Wetzel, and Tyler Counties in Marshall, Wetzel and Tyler County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Hennen, R.V., 1912, Map showing general and economic geology of Doddridge and Harrison Counties in Doddridge and Harris County Reports: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Hennen, R.V., 1917, Map showing general and economic Geology of Braxton County in Braxton County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Hennen, R.V., 1917, Map showing general and economic geology of Clay County, based on USGS Topographical Sheets in Clay County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.

West Virginia Geological and Economic Survey, scale 1:62,500.
Hennen, R.V., 1917, Map showing general and economic geology of Monongalia, Marion, and Taylor Counties in Monongalia, Marion, and Taylor County Reports: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Krebs, C.E., 1911, Map showing general and economic geology of Jackson, Mason, and Putnam Counties in Jackson, Mason, and Putnam County Reports: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Krebs, C.E., 1913, Map showing general and economic geology of Cabell County in Cabell County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Krebs, C.E., 1913, Map showing general and economic geology of Kanawha County in Kanawha County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.

Lotz, C.W., 1970, Probable original minable extent of the bituminous coal seams in West Virginia: West Virginia Geological and Economic Survey, Map-27, scale 1:2,375,000.
Lyons, P.C., 1989, Geologic map of the Sissonville quadrangle, Kanawha, Jackson, and Putman Counties, West Virginia: U.S. Geological Survey, Geologic Quadrangle Map GQ-1660, scale 1:24,000.
Reger, D.B., 1916, Map showing general and economic geology of Lewis and Gilmer Counties in Lewis and Gilmer County Reports: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Reger, D.B., 1918, Map showing general and economic geology of Barbour County in Barbour County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Reger, D.B., 1923, Map showing general and economic geology of Mineral County in Mineral County Report: Morgantown, West Virginia Geological and Economic Survey, scale 1:62,500.
Windolph, Jr., J.F., 1987, Geologic map of the Big Chimney quadrangle Kanawha County: U. S. Geological Survey Quadrangle Map GQ-1612, Scale 1:24,000, 1

Sources of Mined Areas of the Pittsburgh Coal Bed

John T. Boyd Company, 1995, Ownership Map: southwestern Pennsylvania, northern West Virginia & Eastern Ohio, Pittsburgh No. 8 Coal Seam: John T. Boyd Company, Pittsburgh, PA, prepared for the U.S. Geological Survey, September 1995.

Pennsylvania

John T. Boyd Company, 1995, Ownership Map: southwestern Pennsylvania, northern West Virginia & Eastern Ohio, Pittsburgh No. 8 Coal Seam: John T. Boyd Company, Pittsburgh, PA, prepared for the U.S. Geological Survey,

West Virginia

Northern parts

John T. Boyd Company, 1995, Ownership Map: southwestern Pennsylvania, northern West Virginia & Eastern Ohio, Pittsburgh No. 8 Coal Seam: John T. Boyd Company, Pittsburgh, PA, prepared for the U.S. Geological Survey, September 1995.

Central parts

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal, Bethany quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal bed map, Berlin quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1982, Mined area overlay of the Pittsburgh Coal mined areas, Brownton quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal, Burnsville quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal deep mined areas, Century quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal mines, Clarksburg quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1996, Mined area overlay of the Pittsburgh Coal deep mines, Fairmont quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1995, Mined area overlay of the Pittsburgh Coal, Glenville quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1988, Mined area overlay of the Pittsburgh Coal, Gilmer quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1977, Mined area overlay for the Glenville and Gilmer 7.5' topographic quadrangles showing mining in the Pittsburgh Coal seam, WV coordinates, south zone: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1987, Mined area overlay of the Pittsburgh Coal deep mines, Glover Gap quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal, Grafton quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1995, Mined area overlay of the Pittsburgh Coal outcrop, surface mines and underground mines, Morgantown North quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1996, Mined area overlay of the Pittsburgh Coal mined areas, Mount Clare quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1983, Mined area overlay of the Pittsburgh Coal deep mines, Newburg quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1977, Mined area overlay of the Pittsburgh Coal mined areas, Philippi quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal deep mines, Pocatalico quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

Pittsburgh Coal outcrop, surface mines and underground mines, Rivesville quadrangle, WV: Open File Report-07, West Virginia Geological and Economic Survey, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal, Shinnston quadrangle, WV: Open File Report-07, West Virginia Geological and Economic Survey, scale 1:24,000.

West Virginia Geological and Economic Survey, 1987, Mined area overlay of the Pittsburgh Coal bed map, Rosemont quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal mined areas, Saint Albans quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1985, Mined area overlay of the Pittsburgh Coal mined area, Sissonville quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1987, Mined area overlay of the Pittsburgh Coal deep mines, Vadis Open quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1990, Mined area overlay of the Pittsburgh Coal, Wallace quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1995, Mined area overlay of the Pittsburgh Coal, West Milford quadrangle, WV: West Virginia Geological and Economic Survey Open File Report-07, scale 1:24,000.

West Virginia Geological and Economic Survey, 1993, Mined area overlay of the

Digital Data Available on the Internet

Data produced for this report are available for downloading from the USGS Eastern Energy Team ftp server. The two tables below provide information on how to connect to the ftp server as well as a brief description of each file. More detailed information on each file is provided in a file named 'of_96-280.readme', which is also available on the ftp site.

IP address: 130.11.54.6 login: anonymous password: 'your full e-mail address' directory: /pub/OPEN_FILES/OF_96-280 instructions:

1. Connect to the ftp server using the above information.
2. Set the transfer mode to binary by typing 'bin' at the ftp > prompt.
3. Change directories to /pub/OPEN_FILES/OF_96-280.

3. Change directories to /pub/OPEN_FILES/OF 96-280.
4. Use 'get' or 'mget' to download desired file(s).
5. Type 'bye' to disconnect ftp session.

File Name Description

pittsburgh.e00 extent and mined areas of the pittsburgh coal bed horizon, ARC/Info export format

pittsburgh.opt extent and mined areas of the pittsburgh coal bed horizon, USGS DLG optional format

pittsburgh.gra ARC/Info graphics file of the hardcopy map

of 96-280.readme detailed description of digital files

of 96-280 mdf metadata file, version 1.0

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